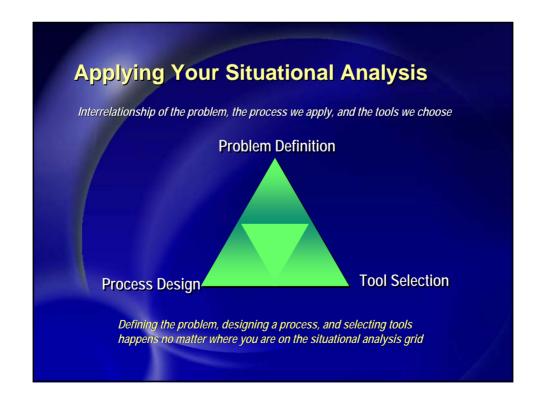
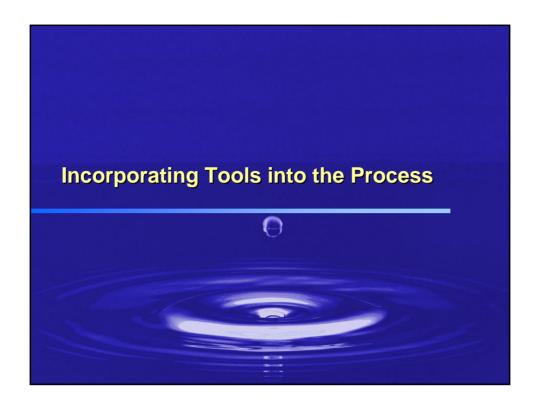




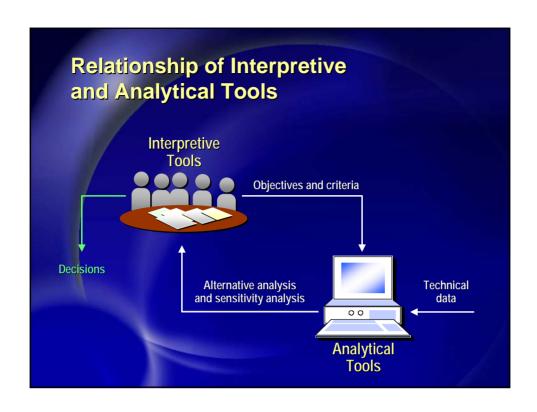
Situational Analysis Grid Stakeholder Environment Most Expensive Suspicious District Shared Objectives						
11103	n Evbarana	Intense Litigation	Suspicious Distrust	Shared Objectives		
o n m e n t	Detailed Technical Models	Work it out in court	Emphasis on identification of common objectives and agreed-upon data and tools to move this way	Emphasis on process that applies tools to identify preferred, integrated solutions		
al Envir	Technical Challenges	Arbitration by technical expert? Seek a regulatory solution?	Emphasis on understanding objectives and making decisions that establish policy direction (or that set the stage for future, more friendly decision-making)	Emphasis on joint exploration of technical situation – development of tools necessary to understand problem and support decision-making according to objective		
Technic	No Data or Known Relationships	?	Dialogue process (no tools)	Heavy emphasis on problem definition and front end		
Least Expe						



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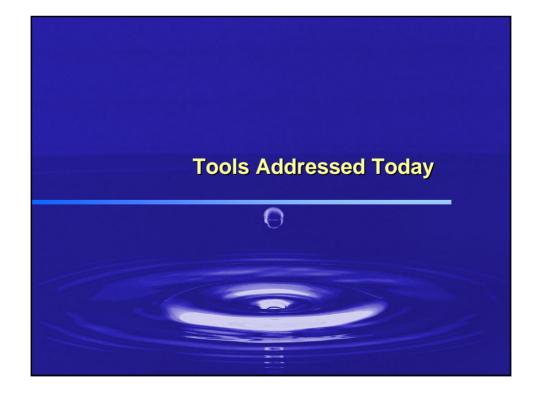
Tool Selection

Select the tool appropriate for

- Planning environment
- Accuracy required to make a decision
- ◆ Decisions to be made
- System characteristics
- Decisionmaker preference and tolerance: complexity constraint
- Project constraints: funding, schedule, resources, information

Planning Environment Categories						
Planning Jurisdiction:	Planning Scope:	Planning Stage:				
What level of the government is involved?	How many functions are included?	What level of planning?				
1. International	1. Multisectoral	1. Policy				
Federal Z.5 Interstate (regional)	2. Several Sectors	2. Framework				
3. State 3.5 Intrastate (regional)	3. Sectoral	3. General Appraisal				
4. Local	4. Several Functions	4. Implementation				
5. Private	5. Functional	5. Functional				
From: Water Resources Planning and Management by Helweg						

Consequences of not selecting the "right" tool • Level of detail too low to addresses the objectives and measures • Cost too high or time frame too analyze to long to address a policy level objective • Data too limited so that the detailed model requires many unjustified assumptions • Lack of credibility with stakeholders



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Tools Addressed Today

- ◆ Analytical Tools
 - Supply-Demand Model Groves
 - ◆ STELLA (Simulation Model) Rodrigo simulation model
 - CALSIM Water Transfers Tool Munevar systems analysis tool
 - ◆ CALVIN Lund economic-engineering optimization model
 - ◆ WEAP -Purkey simulation model
- ◆ Interpretive Tools
 - Criterium Decision Plus Swanson & Dowling
 Multi-attribute rating technique
 - ◆ Gaming Tools Bourez

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